

# SPECIFICATIONS

PHYSICAL FEATURES	MECHANICAL FEATURES	TRANSMISSION	TEMPERATURE
Dimensions Width x Depth x Height <b>300 x 210 x 485 mm</b> Waterproof <b>IP66</b> Impact resistance: <b>IK10</b> Weight: <b>5 kg (without battery)</b>	Fibreglass-reinforced polyester  Class II insulation  Corrosion resistant  Wall or pole fixing	Communication <b>FTP 2G/3G/4G LTE</b>  Local access: <b>Wi-Fi</b> Embedded web interface for parameters setting and data visualisation	Operating temperature <b>-20 °C / +55 °C</b>  Storage temperature <b>0 °C / +40 °C</b>
			POWER SUPPLY
			Autonomous solution: <b>PV + fixing support + lead battery</b> External power supply solution: <b>230VAC</b>

# SENSORS RANGE

INTEGRATED PARAMETERS	RANGE	ACCURACY	RESOLUTION
Temperature	-20 à +55°C	±0.1°C	0.01°C
Relative humidity	0 - 100% RH	±1.5 %RH	0.01 %RH
Atmospheric pressure	300 / 1100 mbar	0.1 mbar @25°C	0.1 mbar
Dust Sensor	PM1 / PM2.5 / PM10 0 - 1000 µg/m³	<5%	0.001 µg/m³
GNSS	Unknown	Unknown	Unknown

EXTERNAL SENSORS	RANGE	ACCURACY	RESOLUTION
Ultrasonic anemometer	0.12 - 40 m/s 0-359 °	0.12 m/s 1°	0.1 m/s 1°
WiMo Multi-parameter sonde	Sonde measuring water physicochemical parameters (temperature, pressure, conductivity, turbidity, pH, etc.). Remote control via RS485 Modbus cable.		

GAS(*)	STANDARD RANGE	COMPENSATION	ESTIMATED LIFETIME	
Carbon monoxide	10 ppm (0.001 ppm)	11 mg/m³	Temperature	3 years
Hydrogen sulfide	50 ppm (0.1 ppm)	69 mg/m³	Temperature	3 years
Ammonia	100 ppm (0.1 ppm)	69 mg/m³	Temperature	2 years
Nitrogen dioxide	5 ppm (0.01 ppm)	9 mg/m³	Temperature	3 years
Oxygen	25 % (0.01 %)		Temperature	2 years
Ozone	5 ppm (0.001 ppm)	9 mg/m³	Temperature	3 years
Sulfur dioxide	50 ppm (0.1 ppm)	130 mg/m³	Temperature	3 years
Volatile organic compounds (VOCs)	10 ppm (0.01 ppm)		Temperature	3 years
Odours	10 ppm (0.1 ppm)		Temperature	3 years

\*Additional gases available on request (CH<sub>4</sub>, HCHO, HCN, H<sub>2</sub>, PH<sub>3</sub>, Br<sub>2</sub>, ClO<sub>2</sub>, Cl<sub>2</sub>, F<sub>2</sub>, HCl, HF)

CALCULATED PARAMETERS	SIGNIFICATION	RANGE
Dew point	Condensation on surfaces with a temperature below the dew point	0 < Tr < 50 °C
Freezing point	Formation of ice crystals on surfaces below freezing point	T < 0°C
Windchill	Human body wind chill index	Air T < 10°C, Wind > 1m/s
Humidex	Heat sensation index on the human body	
Air quality index	Air quality index based on the least favorable parameter	O3, SO2, NO2, PM10, PM25